#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Webb, et al

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

**COMBINED** 

Serial No.:

and

Filed:

Herewith

POWER OF ATTORNEY

For:

Optical Regenerator

Commissioner for Patents Alexandria, VA 22313

### CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

**CORNING INCORPORATED**, a New York corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor(s) of the patent application identified above. A true copy of the unrecorded Assignment is attached hereto.

The undersigned has reviewed the above referenced assignment of the patent application identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

#### POWER OF ATTORNEY BY ASSIGNEE

CORNING INCORPORATED, the assignee of the full and exclusive right, title and interest in and to the accompanying application for United States Letters Patent entitled **Optical**Regenerator in the names of Roderick Peter Webb, Alistair James Poustie, and Robert John

Manning, appoints the practitioners associated with the Customer Numbers provided below (i.e., the practitioners associated with the Intellectual Property Department, Corning Incorporated) to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Please direct all correspondence to Ronald J. Paglierani at the address associated with Customer Number 31362.

Customer Number: 31362 & 22928

Date: 6-17-03

Mark W. Lauroesch Assistant Secretary

CORNING INCORPORATE

As a below named inventor, I declare that:

My residence, Post Office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

# "Optical Regenerator"

The specification of which (check only one item below):

X is attached hereto
was filed as United States Application Serial No. on and was amended on (if applicable)
was filed as PCT international application number , on , and was amended under PCT Article 19 on (if applicable).
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.
I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, on the same subject matter, having a filing date before that of the application on which priority is claimed:
Country: Great Britain Application No.: 01 214 952.4 Filing Date: 28 June 2002
□ NONE
I hereby claim the benefit under Title 35 United States Code § 119(e) and § 120 of

I hereby claim the benefit under Title 35 United States Code § 119(e) and § 120 of any United States application(s) or 365(c) of any PCT international application designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code § 112, I acknowledge the duty to disclose

material information as defined in Tit occurred between the filing date of th filing date of this application:		
ming date of this application.		
Provisional No.:	Filed:	Status:
Application No.:	Filed:	Status:
PCT Application No:	Filed:	Status:
□ NONE		
the practitioners associated with the Into prosecute this application and to trae Office connected therewith. Please dono. 29,201 at the Corning Incorpora Massachusetts, 01730, U.S.A., Telep	ansact all business in the U.S irect all correspondence to F ted, Patents Department, 1	S. Patent and Trademark Ronald J. Paglierani, Reg. 11 Oak Park, Bedford,
I hereby declare that all statements may statements made on information and be statements were made with the knowl are punishable by fine or imprisonment States Code and that such wilful false tion or any patent issued thereon.	pelief are believed to be true edge that wilful false statem nt, or both, under Section 10	; and further that these nents and the like so made 001 of Title 18 of the United
Full Name of Inventor:	Roderick Peter WEBB	
Resident Address:  Post Office Address:		collig, Co. Cork, Republic of Ireland teston, Woodbridge, Suffolk, IP13
Citizanshine	Dritiah	
Citizenship:  June 12, 2003	British Rode and	L Poter West

Full Name of Inventor:

Alistair POUSTIE

Resident Address:

Post Office Address:

60 Lattice Avenue, Ipswich, Suffolk, IP4 5LL, Great Britain

same

Citizenship:

British

June

Alistair POUSTIE

Full Name of Inventor:

, 2003

Robert John MANNING

**Resident Address:** 

14 Green Lodge, Maryborough Woods, Douglas, Co. Cork, Republic of Ireland (formerly of 17 Palmcroft Close, Ipswich, Suffolk, IP1 6RB, Great Britain)

**Post Office Address:** 

same

Citizenship:

British

June , 2003

Robert John MANNING

, and was

As a below named inventor, I declare that:

was filed as PCT international application number

amended under PCT Article 19 on

My residence, Post Office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## "Optical Regenerator"

X is attached hereto

was filed as United States Application Serial No. on and was amended on (if applicable)

The specification of which (check only one item below):

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$\boxtimes$	Country: Great Britain	Application No.: 01	214 952.4	Filing Date: 28 June 2002
	NONE			

I hereby claim the benefit under Title 35 United States Code § 119(e) and § 120 of any United States application(s) or 365(c) of any PCT international application designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code § 112, I acknowledge the duty to disclose

occurr	al information as defined in T ed between the filing date of t late of this application:			
	Provisional No.:	Filed:	Status:	
	Application No.:	Filed:	Status:	
	PCT Application No:	Filed:	Status:	
	NONE			
Office no. 29,	ecute this application and to tr connected therewith. Please of 201 at the Corning Incorpora chusetts, 01730, U.S.A., Tele	lirect all correspondence ated, Patents Departmen	to Ronald J. Paglierani, ıt, 11 Oak Park, Bedfor	, Reg. d,
stateme stateme are pur States	y declare that all statements ments made on information and ents were made with the knownishable by fine or imprisonme Code and that such wilful false any patent issued thereon.	belief are believed to be t ledge that wilful false sta ent, or both, under Section	rue; and further that thes tements and the like so n i 1001 of Title 18 of the	e nade United
Full N	ame of Inventor:	Roderick Peter WEB	<b>B</b>	
Reside	nt Address:		lincollig, Co. Cork, Repu acheston, Woodbridge, S	
Post O	ffice Address:	same		
Citizen	iship:	British		
June	, 2003			
		Roderick P	eter WEBB	

Full Name of Inventor: Alistair POUSTIE **Resident Address:** 60 Lattice Avenue, Ipswich, Suffolk, IP4 5LL, Great Britain **Post Office Address:** Citizenship: British 2003 June Alistair POUSTIE

Full Name of Inventor: Robert John MANNING

**Resident Address:** 14 Green Lodge, Maryborough Woods, Douglas, Co. Cork, Republic of Ireland (formerly of 17 Palmcroft

Close, Ipswich, Suffolk, IP1 6RB, Great Britain)

**Post Office Address:** same

British

Citizenship:

Robert John Manning
Robert John MANNING June 12, 2003

For use when there is at least one inventor employed by a European subsidiary Attorney Docket UK02-009 that has agreed with Corning Incorporated that the inventions of its employees shall be owned by Corning Incorporated.

### ACKNOWLEDGEMENT, ASSIGNMENT and UNDERTAKING

### PART 1

- I, Roderick Peter Webb of 72 Easton Road, Hacheston, Woodbridge, Suffolk, IP13 0DX, England, do hereby assert and acknowledge to Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, and formerly called Corning Glass Works, (hereinafter CORNING):
- That I made as joint inventor with Alistair Poustie of 60 Lattis Avenue, Ipswich, Suffolk, IP4 5LL England and Robert John Manning of 17 Palmcroft Close; Ipswich, Suffolk, IP1 6RB, England an invention or a series of related inventions (hereinafter "said invention") relating to Optical Regenerator which is the subject of a patent application made to the British Patent Office on 28 June 2002 and having the application number 0214952.4 (hereinafter "said patent application").
- That I am [or was at the time said invention was made] employed by Corning Limited, a British Company having its registered office at Wear Glass Works, Sunderland, SR4 6EJ, England ("my country") a wholly-owned subsidiary of CORNING (hereinafter "CL"), and that I work [or was working] in the group known as "Corning Research Centre" at CL's facility at Martlesham Heath, Ipswich, Suffolk, and that said invention was made either
- in the course of my normal duties in circumstances such that an invention (a) might reasonably be expected to result from carrying out of those duties;
- in the course of duties falling outside my normal duties but specifically assigned to me in circumstances such that an invention might reasonably be expected to result from the carrying out of those duties. <u>or</u>
- in the course of my duties and because of the nature of those duties and the particular responsibilities arising from them I had a special obligation to further the commercial interests of my employer's undertaking.
- That I have been informed of an Agreement dated the 14th day of February 2000 between CORNING and CL which provides, inter alia, that all patents, applications for patents, and inventions which are conceived and/or reduced to practice in a Development Program under that Agreement by CL and /or its employees, either individually, or jointly with CORNING and/or its employees shall belong to CORNING, and am informed and believe that my invention was made in the course of such a Development Program.
- That said invention and said patent application accordingly belong according to the law of my country to CORNING
- FOR VALUE RECEIVED, I hereby sell, assign and transfer unto CORNING, as assignee, and unto its successors, assigns and legal representatives, any and all right, title and interest that I may still have in said invention, for the United States of America and all other countries, and all Letters Patents or other rights of like nature that may be granted therefor;

and I request that any and all patents and other rights for said invention be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

- I UNDERTAKE that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other rights of like nature for said invention in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees, for obtaining in respect of said invention any rights arising under the International Convention for the Protection of Industrial Property, the Patent Co-operation Treaty or any other International Agreement or Treaty whatsoever, and generally for giving effect to this Acknowledgement, Assignment and Undertaking.
- I hereby CONSENT that a copy of this document shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to the benefit of said invention and of this Acknowledgement, Assignment and Undertaking.
- 8 . I COVENANT with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.
- I AGREE that this Acknowledgement, Assignment and Undertaking shall be construed according to the laws of the State of New York, United States of America, and that the Courts of that State and United States Federal Courts shall have exclusive jurisdiction over it.

Signed at Martlesham Heath, England this

16th day of January 2003 Rodericke P. Wett

Roderick Peter Webb

IMPORTANT: both the inventor and each witness MUST sign at least his/her first name, middle initial (if any) and sumame: if in any doubt sign your whole name in full.

in the presence of

Full name of first witness:

Witness' address:

signature of first witness GABRIELE BONFRATE

25 BLACKDOLUN QUENUE RUSHMERE SI ANDREW

PSWICH SUFFOCK, IPS 1AY

and of

[signature of second witness

JANUARY 16TH 2003

SANVARY 16th, 200

ROBERT C MCDOUG ALL FLAT 2, 27 TUDDENHAM ROAD

Full name of witness:

195WICH SU PFOLK

Witness' address:

19423N

#### PART 2

We, Corning Limited, Wear Glass Works, Sunderland, SR4 6EJ, England hereby acknowledge that this invention is of the class to which the Agreement identified in clause 3 of PART 1 above applies and in accordance with the terms of that Agreement we hereby sell, assign and transfer unto CORNING, as assignee, and unto its successors, assigns and legal representatives, any and all right, title and interest that we may have in said invention, for the United States of America and all other countries, and all Letters Patents or other rights of like nature that may be granted therefor; and we request that any and all patents and other rights for said invention be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

Corning Limited by:

Arthur Edward Neeves

IMPORTANT: both the signatory and each witness MUST sign at least his/her first name, middle initial (if any) and surname; if in any doubt sign your whole name in full.

Director

in the presence of

[signature of first witness]

Full name of first witness:

Witness' address:

5 JULIA REAL CT.

CONSETT, CO. DUPHAM

and of

Signature of second witness

Full name of witness: AMANDA CAROLINE HARRIS

Witness' address: 40 FOREST LANE, MARTLESHAM HEATH, IPSWICH, SUFFOLK, IPS 3ST.

note: the witnesses do not need special qualifications, but should NOT be members of the inventor's family, senior Corning employees or the Inventor's supervisor or manager, nor other inventors of the invention. Witnesses who are not Corning employees are preferred.

For use when there is at least one inventor employed by a European subsidiary Attorney Docket UK02-009 that has agreed with Corning Incorporated that the inventions of its employees shall be owned by Corning Incorporated.

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CARRIAGIST OF HEADING

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- 4 That said invention and said patent application accordingly belong according to the law of my country to CORNING
- 5 FOR VALUE RECEIVED, I hereby sell, assign and transfer unto CORNING, as assignee, and unto its successors, assigns and legal representatives, any and all right, title and interest that I may still have in said invention, for the United States of America and all other countries, and all Letters Patents or other rights of like nature that may be granted therefor;

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Signed at Martlesham Heath, England this

day of January 2003 17th

PORTANT: both the inventor and each tness MUST sign at least his/her first ne, middle initial (if any) and surname; if any doubt sign your whole name in full.

in the presence of

Full name of first witness:

Witness' address:

and of

Full name of witness:

Witness' address:

Aristain J. Poustie

JANUARY 17th, 2003

[signatura of first with

GABRIECE BONFRATE 25 BLACKDOWN AVENUE

RUSHMERE ST ANDREW **IPSWICH** 

SUFFOCK, IPS 1AY

[signature of second witness]

DAVID

2 THOMAS WALLS

GRULL D'ISSURGH

WCODSRIDGE

SUFFOLK IPIS 6XB

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Corning Limited by:

Arthur Edward Neeves

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Ja E Cz

in the presence of

Amanda Citionic [signature of first witness]

Full name of first witness: AMANDA CAROLINE HARRIS

Witness' address: 40 FOREST LANE, MARTLESHAM HEATH IPSWICH, SUFFOLK, IPS 3ST, U.K.

and of

EMZARCTH J DEGO.
[signature of second witness]

Full name of witness: ELIZABETH JANE DREW

Witness' address: 100 TANGHAM COTTAGES TANGHAM WOODREDGE SUFFOLK 1912 3NE.

note: the witnesses do not need special qualifications, but should NOT be members of the inventor's family, senior Corning employees or the Inventor's supervisor or manager, nor other inventors of the invention. Witnesses who are not Corning employees are preferred.

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Signed at Martlesham Heath, England this

16 th day of JANYARY 2003

Robert John Manning

IMPORTANT: both the inventor and each witness MUST sign at least his/her first name, middle initial (if any) and surname; if in any doubt sign your whole name in full.

in the presence of

JANUARY 16th 2003

JANUARY 16th 2003

Manuna

Full name of first witness:

Witness' address:

PETER HOALEY

NORBURY ROAD, IPSWICH, UK.

and of

Full name of witness:

Witness' address:

GABRIELE BONFRATE

25 BLACK DOWN AVENUE RUSHMERE ST ANDREW

[signature of second with

IPSWICH SUFFOCK

IPS AAY

#### PART 2

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Corning Limited by:

Arthur Edward Neeves

IMPORTANT: both the signatory and each witness MUST sign at least his/her first name, middle initial (if any) and surname; if in any doubt sign your whole name in full:

Director

in the presence of

Orași de de la compresiona della compresiona del

[signature of first witness]

Full name of first witness:

Witness' address:

COLIN KAM

5 VILIA REAL COURT, CONSETT,

CO. DURHAM

and of

[signature of second witness]

Full name of witness: AMONDA CAROLINE HARRIS

Witness' address: 40 FOREST LANE, MARTLESHAM HEATH, IPSWICH, SUFFOLK

note: the witnesses do not need special qualifications, but should NOT be members of the inventor's family, senior Corning employees or the Inventor's supervisor or manager, nor other inventors of the invention. Witnesses who are not Corning employees are preferred.